

CAYAPA INDIANS

PHYSICAL ANTHROPOLOGY

GENERAL CHARACTERISTICS

114 The measurements of seventy individuals which follow
● 141 were made during the last days of the stay among the Cayapa. On departing from New York for this region no anthropometric instruments were available, and arrangements were made to have a set sent later. However, month after month having passed without the arrival of the instruments, it became necessary, near the latter part of the stay, to make them. Through the kindness of Señor Don Donato Yannuzzelli, owner of the Hacienda of Palma, the author was enabled to make a serviceable measuring rod in the shops connected with Señor Yannuzzelli's sawmill. For this purpose a thoroughly seasoned piece of hardwood called in Spanish guayacan was procured and sized with exactness. This was then carefully graduated with a metric rule and when provided with a spring-arm made a serviceable instrument.

Care was always taken to keep the rod from getting wet or subject to conditions that would tend to change its length. After the completion of the measurements the rod was proved with metric rules to make sure that no change in length had taken place. This rod, a pair of calipers lent by Señor Yannuzzelli, and a small thirty-centimeter rule, provided the instruments necessary for the work, and it was possible with these in a short time to procure the measurements here presented.

In the majority of cases the Indians submitted readily to measurement, and had more time been available it

would have been possible to obtain a much more complete series. However, with this series of seventy measurements, of which thirty-six represent males and thirty-four females (including nineteen adult males and twenty-one adult females), it is possible to arrive at a fairly clear conception of the physical characteristics of the Cayapa as a tribe. These measurements and the indices computed from them appear in tabular form in the following pages.

The tables of measurements and indices show that the Cayapa on the whole are short in stature, the men averaging only 155 cm. and the women only 146 cm. The range of individual variation among the men, as also among the women, is 14 cm. Among the men there are at least a few individuals who appeared to be somewhat taller than the maximum here given, but as a tribe the Cayapa must be considered somewhat below the average in stature. The difference in stature between men and women is 11.27 cm.; that is to say, the men are 7.7 percent. taller than the women. Considering the fact that the Cayapa as a tribe are low in stature, this is a high percentage. In fact in most races of low stature this difference usually approaches 5 percent. of the female stature. Larger series would probably alter these results somewhat, but it seems probable that they would remain substantially the same since the individuals measured, of both sexes, were about the average of the tribe as a whole.

According to the averages of the cephalic indices of all four classes, men, boys, women, and girls, the Cayapa are clearly brachycephalic. Further, when the indi-

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vidual measurements themselves are considered, the boys, women, and girls clearly fall into this division, for there are in these three classes fourteen, seventeen, and eleven individuals respectively who are brachycephalic, as against three, four, and two who are mesocephalic, these nine only being below 83.33. In the case of the men, however, there is a slightly greater number of mesocephalic than of brachycephalic individuals, the numbers being ten and nine respectively. That the average index of the men falls within the brachycephalic division is due to the fact that the mesocephalic measurements, though greater in number, approach the brachycephalic limit, while six of the nine brachycephalic measurements are well up in that division, ranging from 87.5 to 90.5. This makes the average high and brings the class of men also just within brachycephaly.

Considering now the relations of these measurements from the standpoint of the interrelations of sex and age, we find that the heads of the men, with an average index of 83.58, are materially longer than those of the women, with an average index of 86.85. This is due to the fact that the head of the man is of much greater actual length (10 mm.) than that of the woman, while the actual width of the man's head differs comparatively little (only 2 mm.) from that of the woman.

Among the boys, however, this index, which is 86.37, approaches very nearly that of the women, and differs less than one degree from that of the girls, which is 87.30. Some discrepancy arises in this case from the fact that these averages are derived from different numbers of individuals (17 boys and 13 girls) and also because there

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are certain differences of age, the girls being on the whole somewhat older than the boys. To obviate this a computation has been made in which the last 13 measurements of boys (nos. 5-17) only have been taken. As it happens, these measurements are of individuals more nearly of the same age of the thirteen girls measured, and the element of extreme youth among the boys is thus eliminated. This computation gives an index of 86.04, which still leaves the index of the boys much nearer that of the women than that of the men, the differences being 0.71 and 2.46 respectively. 141 •

It would appear therefore that the head proportions among the adult females differ very little from those of childhood, while in the males the head has a marked tendency to elongate with advancing years.

While dealing with the physical characteristics of the Cayapa it should be noted that in certain of those outward characteristics which are most manifest to the eye, the individual differences are very great. The hair varies from jet-black to a very dark-brown in color, and from absolute straightness to a very pleasing waviness, though in no case is there any near approach to curliness. It is ordinarily fine, though among the men some individuals are found whose hair is moderately coarse. These features are, of course, more noticeable in the women than in the men, since the women always wear their hair long and flowing, whereas the men keep their hair cropped fairly short, though in earlier times they too wore long hair. In many cases the women's hair reaches to the waist, and is very full and heavy. Such, for instance, is the case with the middle-aged woman 142 302

142 much lighter than that of the average North American Indians.

In a word, therefore, the Cayapa may be said to be a well proportioned, though somewhat undernourished, light-brown people, with brachycephalic heads, black or dark-brown hair which varies from straight to wavy, to show considerable variation in the shape of the nose, to have very dark-brown eyes, wide upper lips, full and fairly high foreheads, high cheekbones and round faces, and to have supraorbital ridges and chins that are not at all prominent.

CXX No opportunity was presented to measure the few Cholo who live on the Rio Cayapas. They are, however, of quite a different type from the Cayapa, being somewhat shorter and more thick-set than the latter, and as a rule more mongoloid in general appearance. In pls. CXL-CXLII are shown two boys, two girls, and one young man of about twenty-one years, all members of this tribe.

MEASUREMENTS

147 In the accompanying tables the following observations are used:
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St, Stature.

Str, Stretch of arms.

Sh, Height of shoulder (acromion):

Hmf, Height of middle finger from surface upon which hand rests.

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A, Length of arm (acromion to tip of second finger).

Ha, Height sitting.

Wa, Width of shoulders between acromia.

La, Length of forearm (elbow to tip of middle finger).

La, Length of head.

Ba, Width of head.

Wj, Width of face between zygomatic arches.

H/I, Distance from hair line to chin

H/II, Distance from nasion to chin.

He, Height of nose.

We, Width of nose between ala.

$$ISt, \frac{St}{St}$$

$$IA, \frac{A}{St}$$

$$IH, \frac{H}{St}$$

$$IWa, \frac{Wa}{St}$$

$$PI, \frac{H/II}{Wj}$$

$$NI, \frac{We}{He}$$

$$CI, \frac{Ba}{La}$$

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TABLE I.—TABULATION

MALES															
Age	Age	St	St	St	Head	A	Hs	Wah	Lfs	Lh	Hh	WT	III	III	III
1	4	1070	1065	850	385	465	580	260	295	160	144	127	153	91	
2	4	910	890	700	340	360	495	230	235	161	138	114	128	81	
3	4	950	940	730	330	400	560	230	260	161	133	109	135	80	
4	4	850	845	660	300	360	495	215	230	158	133	112	116	73	
5	6	990	990	780	350	430	545	240	270	164	137	117	136	84	
6	6	1000	980	770	350	420	570	235	265	170	144	117	147	80	
7	7	1115	1120	900	405	495	610	260	310	161	135	120	150	84	
8	7	1090	1100	840	380	460	610	270	290	169	134	118	134	84	
9	7	1125	1130	890	385	505	605	250	310	160	140	117	148	91	
10	8	1185	1230	955	410	545	650	275	330	156	147	123	139	91	
11	10	1285	1330	1030	450	580	685	325	360	166	150	128	150	94	
12	11	1335	1415	1080	440	640	705	345	370	164	146	126	164	102	
13	11	1310	1310	1045	460	585	705	330	360	165	147	131	148	93	
14	13	1430	1505	1190	510	680	735	345	415	176	134	129	153	102	
15	14	1385	1450	1120	490	630	730	355	400	164	149	133	166	100	
16	15	1315	1390	1070	455	615	705	315	370	160	139	122	148	93	
17	16	1395	1390	1140	510	630	775	335	375	167	151	133	167	108	
18	18	1560	1570	1305	610	695	835	365	425	184	149	137	164	103	
19	18	1490	1550	1235	550	685	775	370	420	184	148	135	161	103	
20	21	1580	1630	1320	580	740	855	420	435	191	155	143	168	106	
21	21	1490	1555	1240	570	670	805	355	420	180	149	133	159	102	
22	24	1530	1560	1260	560	700	850	390	420	180	144	143	162	107	
23	28	1470	1525	1225	555	670	785	430	410	175	147	144	181	117	
24	30	1605	1615	1340	625	715	865	395	435	180	151	147	172	109	
25	32	1595	1705	1330	600	730	850	440	450	175	158	146	168	110	
26	32	1570	1650	1305	570	735	840	380	435	168	147	135	178	113	
27	34	1580	1690	1320	570	750	850	420	445	187	152	143	187	118	
28	35	1490	1540	1250	560	690	810	360	415	170	136	133	175	111	
29	35	1505	1550	1210	535	675	815	390	415	172	144	141	179	115	
30	35	1605	1720	1335	580	755	895	420	465	187	146	139	180	118	
31	35	1530	1575	1275	575	700	860	410	420	165	146	137	166	113	
32	40	1575	1660	1315	575	740	830	395	430	178	143	135	177	122	
33	40	1570	1610	1300	600	700	835	410	430	178	161	144	166	112	

* Measurements are in millimeters.

3: Barrett E-5 (1908-1909)1925

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OF MEASUREMENTS*

MALES

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IIn	Wn	IStr	IA	IHa	IWh	FI	NI	CI	No.
34	29	99.53	43.45	54.20	24.29	71.66	85.30	90.00	1
31	25	97.80	39.56	54.39	25.27	71.05	80.64	85.71	2
30	22	99.00	42.10	58.88	24.21	73.39	73.33	82.60	3
26	26	99.41	42.35	58.23	25.29	65.17	100.00	84.17	4
30	29	100.00	43.43	55.05	24.24	71.79	96.66	83.53	5
30	29	98.00	42.00	57.00	23.50	68.37	96.66	84.70	6
31	28	100.03	44.39	54.70	23.31	70.00	90.32	83.85	7
32	30	100.92	42.20	55.96	24.77	71.19	93.75	79.30	8
32	28	100.44	44.88	53.77	22.22	77.77	87.50	87.50	9
37	31	103.79	45.99	54.85	23.20	73.98	83.78	94.23	10
36	32	103.05	45.18	53.31	25.29	73.43	88.88	90.36	11
40	31	105.90	47.94	52.81	25.84	80.95	77.50	89.02	12
36	32	100.00	44.65	53.81	25.19	70.99	88.88	89.09	13
43	34	105.24	47.55	51.21	24.12	79.08	79.08	76.15	14
39	36	104.68	45.48	52.71	25.63	75.18	92.30	90.85	15
37	31	105.70	46.76	53.61	23.95	76.22	83.78	86.87	16
44	34	99.72	45.16	55.55	24.01	81.20	77.27	90.42	17
36	33	100.64	44.55	53.52	23.39	75.18	91.66	80.98	18
40	37	104.03	45.97	52.01	24.83	76.30	92.50	80.46	19
43	39	103.17	46.83	54.11	26.58	74.13	90.70	81.15	20
46	37	104.36	44.96	54.03	23.82	76.69	80.43	82.77	21
45	38	101.96	45.75	55.55	25.49	74.85	84.44	80.00	22
52	35	103.74	45.57	53.40	29.25	81.25	67.31	84.00	23
47	33	100.62	44.54	53.89	24.61	74.15	70.21	83.88	24
51	35	106.89	45.76	52.22	27.58	75.34	68.63	90.28	25
46	34	105.09	46.81	53.50	24.20	83.73	73.91	87.50	26
48	38	106.96	47.46	53.80	26.58	82.51	79.17	81.29	27
45	31	103.35	46.30	54.36	24.16	83.45	68.88	80.00	28
50	37	102.99	44.85	54.15	25.91	81.56	74.00	83.72	29
51	42	107.16	47.04	55.70	26.16	84.90	82.35	78.28	30
48	35	102.94	45.75	56.21	26.79	82.48	72.91	88.50	31
49	34	105.39	46.98	52.69	25.07	90.37	69.38	80.33	32
52	41	102.55	44.58	53.18	26.11	77.77	78.84	90.45	33

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TABLE I.—TABULATION OF

MALES

No.	Age	St	Str	Sh	Hmf	A	Hs	Wah	Lfa	Lh	Bh	Wt	Hll	Hlll
34	40	1600	1660	1340	580	760	860	405	450	178	158	146	169	117
35	45	1560	1560	1310	615	695	820	405	430	179	148	135	173	111
36	48	1570	1670	1320	570	750	865	425	440	178	148	142	168	107

FEMALES

37	5	1045	1040	835	375	460	585	255	280	159	145	119	134	87
38	7	990	960	780	370	410	570	235	255	151	140	118	137	84
39	8	1270	1300	1050	460	590	660	300	360	171	140	124	144	85
40	9	1175	1180	930	415	515	640	280	315	167	144	123	145	93
41	9	1120	1120	895	420	475	625	265	295	158	139	120	143	88
42	11	1270	1280	1040	480	560	690	305	335	163	140	122	148	95
43	11	1120	1120	810	410	400	605	275	300	155	144	120	144	82
44	12	1250	1240	1030	480	550	680	295	340	162	140	125	150	96
45	12	1270	1245	1030	480	550	705	310	330	158	137	121	146	94
46	12	1270	1290	1030	460	570	660	290	340	163	142	123	152	96
47	12	1215	1255	975	430	545	650	285	330	160	141	122	140	92
48	12	1260	1280	1030	460	570	695	280	340	173	142	122	143	94
49	14	1390	1450	1145	500	645	740	340	395	169	145	131	155	102
50	20	1435	1470	1160	530	630	765	345	395	173	142	130	154	97
51	25	1435	1420	1180	560	620	780	350	370	162	146	131	159	98
52	28	1500	1515	1260	595	665	825	370	410	170	148	131	158	108
53	30	1510	1550	1260	580	680	810	370	415	170	143	132	156	104
54	30	1495	1505	1225	555	670	830	355	400	178	152	134	160	101
55	30	1425	1505	1180	510	670	760	335	390	172	151	133	164	105
56	35	1440	1470	1180	540	640	750	340	400	169	143	131	171	106
57	35	1535	1540	1270	580	690	830	355	415	173	144	132	163	111
58	35	1460	1510				800			169	144	136	172	106
59	35	1430	1460	1180	530	650	790	370	400	164	151	129	168	112
60	35	1450	1515	1210	550	660	80	370	390	162	144	135	145	94
61	35	1405	1420	1150	520	630	750	325	380	168	138	127	155	92
62	38	1510	1550	1245	565	680	805	370	410	164	150	131	165	108
63	38	1490	1550	1230	550	680	795	365	410	170	150	128	159	105
64	40	1450	1455	1205	575	630	795	355	390	172	148	130	173	118

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MEASUREMENTS—Continued

MALES

Hn	Wn	IStr	IA	IHe	IWh	FI	NI	CI	No.
48	40	103.75	47.50	53.75	25.31	80.13	83.33	88.76	34
44	36	100.00	44.55	52.56	25.96	82.22	81.81	82.68	35
46	37	106.37	47.77	55.09	27.07	75.35	80.43	83.15	36

FEMALES

34	29	99.60	44.01	55.97	24.40	73.11	85.29	91.19	37
33	29	97.00	41.41	57.57	23.73	71.19	87.87	92.72	38
35	32	102.35	46.45	51.96	23.62	68.62	91.43	81.87	39
36	30	100.35	43.82	54.46	23.82	75.65	83.33	86.23	40
33	28	100.00	42.41	55.80	23.66	73.33	84.84	87.97	41
35	31	100.79	44.09	54.33	24.01	77.87	88.57	85.88	42
38	29	100.00	35.71	54.01	24.55	68.33	76.31	92.90	43
40	30	99.20	44.00	54.40	23.60	76.80	75.00	86.42	44
36	32	98.03	43.30	55.51	24.40	77.68	88.88	86.72	45
39	31	101.57	44.88	51.96	22.83	78.04	79.48	87.11	46
37	29	103.29	44.85	53.49	23.45	75.40	78.37	88.12	47
38	32	101.58	45.23	55.15	22.22	77.04	84.21	82.08	48
43	36	104.32	46.40	53.23	24.46	77.87	83.72	85.79	49
40	30	102.43	43.90	53.31	24.04	74.61	75.00	82.08	50
39	33	98.94	43.20	54.35	24.39	74.81	84.62	90.12	51
46	33	101.00	44.33	55.00	24.66	82.45	71.74	87.06	52
46	36	102.65	45.03	53.64	24.50	78.78	78.26	84.11	53
45	34	100.60	44.81	55.52	23.74	75.37	75.55	85.39	54
44	33	105.61	47.01	53.33	23.50	78.94	75.00	87.79	55
44	31	102.03	44.44	52.08	23.61	80.91	70.45	84.61	56
48	33	100.20	44.95	54.02	23.12	84.09	68.75	83.24	57
40	38	103.42		54.79		77.94	95.00	85.23	58
49	31	102.09	45.45	55.24	25.87	86.85	63.26	92.07	59
41	32	104.48	45.51	55.17	25.51	69.62	78.04	88.88	60
43	33	101.06	44.80	53.38	23.13	72.44	76.74	82.14	61
42	32	102.65	45.00	53.31	24.50	82.50	76.19	91.47	62
44	34	104.02	45.62	53.35	24.49	82.03	77.27	88.23	63
50	36	100.02	43.45	54.82	24.48	90.77	72.00	86.05	64

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TABLE I—TABULATION OF MEASUREMENTS

—Concluded

FEMALES

No.	Age	St	Str	Sh	Hmf	A	Hs	Wsh	Lfa	Lh	Bh	WI	H/I	H/II
65	40	1445	1510	1200	530	670	790	340	400	158	137	125	165	108
66	45	1520	1545	1265	570	695	820	370	415	172	147	134	147	101
67	45	1440	1445	1170	560	610	770	355	380	164	148	133	157	103
68	50	1480	1550	1250	555	695	790	370	415	168	144	145	134	115
69	50	1430	1495	1160	505	655	775	385	400	173	143	135	155	100
70	60	1460	1490	1210	550	660	790	350	395	163	154	129	169	105

FEMALES

Hn	Wn	Istr	IA	IHa	IWsh	FI	NI	CI	No.
47	32	104.49	46.34	54.63	23.52	86.40	68.0	886.71	65
43	34	101.64	45.67	53.95	24.34	75.37	79.0	785.47	66
43	38	100.35	42.40	53.47	24.65	77.44	88.3	790.25	67
50	35	104.73	46.92	53.37	25.00	85.82	70.0	885.70	68
45	40	104.49	45.76	54.20	26.92	74.07	88.8	882.83	69
46	39	102.05	45.20	54.11	23.97	81.40	84.7	994.48	70

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TABLE II
MAXIMUM, MINIMUM, AND AVERAGE MEASUREMENTS, AND INDICES OF ADULTS*

	Males (18 + yrs. of age) Nos. 18-36			Females (18 + yrs. of age) Nos. 50-70		
	Max.	Min.	Aver.	Max.	Min.	Aver.
St	1605	1470	1551.31	1535	1405	1464.04
Str	1720	1525	1609.73	1550	1420	1498.57
Sh	1340	1210	1291.05	1265	1150	1209.50
Hmf	625	535	577.89	595	505	550.50
A	760	670	713.42	695	610	659.00
Hs	895	775	836.84	830	750	791.42
Wsh	440	355	399.21	385	325	357.25
Lfa	465	410	431.05	415	370	399.00
Lh	191	165	178.36	178	158	168.28
Bh	161	136	148.94	154	137	146.04
Wf	147	133	139.89	136	125	131.42
HfI	187	159	171.73	173	145	161.00
HfII	122	102	111.21	118	92	104.61
Hn	52	36	46.68	50	39	44.52
Wn	42	31	36.42	40	30	34.14
IStr	107.16	100.00	103.78	105.61	98.94	102.33
IA	47.77	44.54	45.97	47.01	42.40	44.98
IHs	56.21	52.01	53.88	55.52	52.08	54.04
IWsh	29.25	23.39	25.73	26.92	23.12	24.39
FI	90.37	74.13	79.59	90.77	69.62	79.65
NI	92.50	67.31	78.46	95.00	63.26	77.00
CI	90.45	78.28	83.58	94.48	82.08	86.85
CI, Children (Nos. 1-17)			86.37	CI, Children Nos. 37-49)		87.30

*Measurements are in millimeters.

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TABLE III.—STATURE (St)

Measurements (cm.)	Number of individuals	
	Male	Female
140		1
1		
2		1
3		4
4		2
5		3
6		2
7	1	
8		1
9	3	2
150	1	1
1		2
2		1
3	2	1
4		
5		
6	2	
7	4	
8	2	
9	1	
160	3	
No. of cases.....	19	21
Average.....	155.13	146.40

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TABLE IV.—STRETCH OF ARMS (Str)

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Measurements (cm.)	Number of individuals	
	Male	Female
142		2
3		
4		1
5		3
6		1
7		2
8		2
9		
150		2
1		4
2	1	
3		
4	1	2
5	3	2
6	2	
7	2	
8		
9		
160		
1	2	
2		
3	1	
4		
5	1	
6	2	
7	1	
8		
9	1	
170	1	
1		
2	1	
No. of cases.....	19	21
Average.....	160.97	149.86

3: Barrett E-5 (1908-1909) 1925
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TABLE V.—HEIGHT OF SHOULDER (ACROMION)
(Sh)

Measurements (cm.)	Number of individuals	
	Male	Female
115		1
6		2
7		1
8		4
9		
120		2
1	1	2
2	2	1
3	1	1
4	1	1
5	1	1
6	1	3
7	1	1
8		
9		
130	3	
1	2	
2	2	
3	2	
4	2	
No. of cases.....	19	20
Average.....	129.10	120.95

3: Barrett E-5 (1908-1909)1925
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TABLE VI.—HEIGHT OF MIDDLE FINGER FROM
SURFACE ON WHICH HEEL RESTS (Hmf)

Measurements (cm.)	Number of individuals	
	Male	Female
50		1
1		1
2		1
3	1	3
4		1
5	2	5
6	2	3
7	6	2
8	3	2
9		1
60	2	
1	2	
2	1	
No. of cases.....	19	20
Average.....	57.79	55.05

3: Barrett E-5 (1908-1909) 1925
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TABLE VII.—LENGTH OF ARM (A)
(Acromion to Tip of Second Finger)

Measurements (cm.)	Number of individuals	
	Male	Female
1		1
2		1
3		3
4		1
5		2
6		3
7	3	3
8	1	3
9	3	3
70	3	
1	1	
2		
3	2	
4	2	
5	3	
6	1	
No. of cases.....	19	20
Average.....	71.34	65.90

3: Barrett E-5 (1908-1909)1925
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TABLE VIII.—HEIGHT SITTING (Hs)

Measurements (cm.)	Number of individuals	
	Male	Female
75		2
6		2
7	1	2
8	1	1
9		6
80	1	3
1	2	1
2	1	2
3	3	2
4	1	
5	4	
6	4	
7		
8		
9	1	
No. of cases.....	19	21
Average.....	83.68	79.14

3: Barrett E-5 (1908-1909)1925
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TABLE IX.—WIDTH OF SHOULDERS BETWEEN
ACROMIA (Wsh)

Measurements (cm.)	Number of individuals	
	Male	Female
32		1
3		1
4		3
5	1	6
6	2	1
7	1	7
8	1	1
9	4	
40	2	
1	2	
2	4	
3	1	
4	1	
No. of cases.....	19	20
Average.....	39.92	35.72

3: Barrett E-5 (1908-1909)1925
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TABLE X.—LENGTH OF FOREARM (Lfa)
(Elbow to tip of middle finger)

Measurements (cm.)	Number of individuals	
	Male	Female
37		1
8		2
9		5
40		5
1	3	7
2	5	
3	6	
4	2	
5	2	
6	1	
No. of cases.....	19	20
Average.....	43.10	39.90

3: Barrett E-5 (1908-1909)1925
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TABLE XI.—LENGTH OF HEAD—(Lh)

Measurements (mm.)	Number of individuals	
	Male	Female
158		1
9		
160		
1		
2		2
3		1
4		3
5	1	
6		
7		
8	1	2
9		2
170	1	3
1		
2	1	3
3		3
4		
5	2	
6		
7		
8	4	1
9	1	
180	3	
1		
2		
3		
4	2	
5		
6		
7	2	
8		
9		
190		
1	1	
No. of cases.....	19	21
Average.....	178.36	168.28

3: Barrett E-5 (1908-1909)1925
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TABLE XII.—WIDTH OF HEAD (Bh)

141 ●

Measurements (mm.)	Number of individuals	
	Male	Female
136	1	
7		1
8		1
9		
140		
1		
2		1
3	1	3
4	2	4
5		
6	2	1
7	2	1
8	3	3
9	2	
150		2
1	1	2
2	1	1
3		
4		1
5	1	
6		
7		
8	2	
9		
160		
1	1	
No. of cases.....	19	21
Average.....	148.94	146.04

3: Barrett E-5 (1908-1909) 1925
SD 6 Cayapa SD6

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● [4] TABLE XIII.—WIDTH OF FACE BETWEEN ZYGOMATIC ARCHES (Wf)

Measurements (mm.)	Number of individuals	
	Male	Female
125		1
6		
7		1
8		1
9		2
130		2
1		4
2		2
3	2	2
4		3
5	4	2
6		1
7	2	
8		
9	1	
140		
1	1	
2	1	
3	3	
4	2	
5		
6	2	
7	1	
No. of cases.....	19	21
Average.....	130.89	131.42

3: Barrett E-5 (1908-1909)1925

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TABLE XIV.—DISTANCE FROM HAIR LINE TO CHIN (Hfl) ●

Measurements (mm.)	Number of individuals	
	Male	Female
145		1
6		
7		1
8		
9		
150		
1		
2		
3		
4		1
5		2
6		1
7		1
8		1
9	1	2
160		1
1	1	
2	1	
3		1
4	1	1
5		2
6	2	1
7		
8	3	1
9	1	1
170		
1		1
2	1	1
3	1	1
4		

3: Barrett E-5 (1908-1909)1925
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CAYAPA INDIANS

TABLE XIV.—*Continued*

Measurements (mm.)	Number of individuals	
	Male	Female
5	1	
6		
7	1	
8	1	
9	1	
180	1	
1	1	
2		
3		
4		
5		
6		
7	1	
No. of cases.....	19	21
Average.....	171.73	161.00

3: Barrett E-5 (1908-1909)1925

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TABLE XV.—DISTANCE FROM NASSON TO CHIN (III)

Measurements (mm.)	Number of individuals	
	Male	Female
92		1
93		
94		1
95		
96		
97		1
98		1
99		
100		1
101		2
102	1	
103	2	1
104		1
105		3
106	1	2
107	2	
108		3
109	1	
110	1	
111	2	1
112	1	1
113	2	
114		
115	1	1
116		
117	2	
118	2	1
119		
120		
121		
122	1	
No. of cases.....		21
Average.....		104.61

3: Barrett E-5 (1908-1909) 1925
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TABLE XVI.— HEIGHT OF NOSE (In.)

Measurements (in.)	Number of individuals	
	Male	Female
25	1	
26		
27		
28		
29		1
30	1	2
31		1
32		1
33	1	3
34	1	3
35	2	2
36	3	3
37	1	1
38	3	1
39	1	1
40	1	2
41	2	
42	2	
No. of cases.....	19	21
Average.....	45.68	44.52

3: Barrett E-5 (1908-1909)1925
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TABLE XVII.—WIDTH OF NOSE BETWEEN ALÆ
(Wn)

Measurements (mm.)	Number of individuals	
	Male	Female
30		1
1	1	2
2		3
3	2	5
4	2	3
5	3	1
6	1	2
7	4	
8	2	2
9	1	1
40	1	1
1	1	
2	1	
No. of cases.....	19	21
Average.....	36.42	34.14

TABLE XVIII.—(IStr)

Index	Number of individuals			
	Men	Boys	Women	Girls
97				1
8		1		1
9		3	1	1
100	1	6	3	4
1	2	1	3	1
2	1		5	3
3	5	1	3	1
4	4	1	4	1
5	2	2	1	
6	1	2	1	
7	3			
No. of cases.....	19	17	21	13
Average.....	103.78	101.37	102.33	100.62
Average (Nos. 5-17).....		102.11		

3: Barrett E-5 (1908-1909)1925
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TABLE XIX.—(IHs)

Index	Number of individuals			
	Men	Boys	Women	Girls
51		1		
2	2		1	2
3	5	3	7	3
4	8	5	6	3
5	1	4	6	2
6	3	1	1	2
7		1		1
8		1		
9		1		
No. of cases.....	19	17	21	13
Average.....	53.88	54.71	54.04	54.46
Average (Nos. 5-17).....		54.18		

3: Barrett E-5 (1908-1909)1925
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TABLE XX—(IWsh)

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Index	Number of individuals			
	Men	Boys	Women	Girls
22		1		
3	1	4	4	1
4	3	5	10	2
5	5	5	3	9
6	4	2	2	1
7	4		1	
8	1			
9	1			
No. of cases.....	19	17	20	13
Average.....	25.73	23.78	24.39	23.59
Average (Nos. 5-17).....		24.25		

TABLE XXI.—(Ia)

Index	Number of individuals			
	Men	Boys	Women	Girls
36				1
7				
8				
9		1		
40				
1				1
2		4	1	
3		2	2	2
4		1	3	4
5	6	5	7	3
6	6	1	5	2
7	6	1	2	
8	1	2		
No. of cases.....	19	17	20	13
Average.....	45.97	44.29	44.98	43.58
Average (Nos. 5-17).....		45.04		

3: Barrett E-5 (1908-1909) 1925
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TABLE XXII.—FACIAL INDEX (FI)

Index	Number of individuals			
	Men	Boys	Women	Girls
65		1		
6				
7				
8		1		1
9				1
70		1	1	
1		3	1	1
2		2		
3		2		2
4	2	1	1	
5	4	1	4	1
6	1	1		1
7	1		1	2
8	1	1	1	
9		1	2	
80	1			
1	1	2	2	
2	3		2	
3	1		1	
4	2		1	
5	1			
6			2	
7			1	
8				
9				
90	1			
1			1	
No. of cases.....	19	17	21	13
Average.....	79.59	73.61	79.65	74.69
Average (Nos. 5-17).....		74.63		

3: Barrett E-5 (1908-1909)1925
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TABLE XXIII.—NASAL INDEX (NI)

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Index	Number of individuals			
	Men	Boys	Women	Girls
63			1	
4				
5				
6				
7	1			
8			1	
9	3		1	
70	1		2	
1			2	
2				
3	1	1		
4	2			
5			2	1
6			2	1
7		2	2	
8			2	1
9	2	1	1	1
80	2			
1		1		
2	2			
3	1			1
4	1	2		2
5		1	2	2
6				
7		1		
8			1	2
9		2	1	1
90		1		
1	1			1

3: Barrett E-5 (1908-1909)1925
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TABLE XXIII.—Continued

Index	Number of individuals			
	Men	Boys	Women	Girls
2	2	1		
3				
4		1		
5			1	
6				
7		2		
8				
9				
100		1		
No. of cases.....	19	17	21	13
Average.....	78.46	86.80	77.00	83.64
Average (Nos. 5-17).....		87.41		

TABLE XXIV.—CEPHALIC INDEX (CI)

Index	Number of individuals			
	Men	Boys	Women	Girls
76		1		
.5				
7				
.5				
8				
.5				
9				
.5				
80	2			
.5	2			

3: Barrett E-5 (1908-1909)1925
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TABLE XXIV.—*Continued*

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Index	Number of individuals			
	Men	Boys	Women	Girls
1	2			
.5	1			
2			2	2
.5	2	1		
3	1		2	
.5	1	1		
4	2	2	1	
.5		1	1	
5			1	
.5		1	3	
6			1	3
.5				1
7		1	1	2
.5	1	1	1	
8			2	2
.5	2			
9	1	2	1	
.5				
90		1	2	
.5	2	2		
1		1		1
.5			1	
2			1	
.5				
3				2
.5				
4		1		
.5			1	
No. of cases.....	19	17	21	13
Average.....	83.58	86.37	86.85	87.30
Average (Nos. 5-17).....		86.04		
No. Mesocephalic.....	10	3	4	2
No. Brachycephalic.....	9	14	17	11

3: Barrett E-5 (1908-1909)1925

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TABLE XXV.—TABLE OF RELATIONSHIPS

f	= father	g f	= grandfather
m	= mother	g m	= grandmother
so	= son	g so	= grandson
d	= daughter	g d	= granddaughter
br	= brother	h	= husband
si	= sister	w	= wife

- 1 = so of 34, 57; br of 13, 14, 44, 49.
- 2 = so of 23, 52; br of 37.
- 3 = so of 36, 66; br of 20, 39.
- 4 = (name, Sapo)
- 5 = br of 9, 43.
- 6 = (name, Yukito)
- 7 = so of 35, 56.
- 8 = so of 30, 60.
- 9 = so of 29, 61; br of 5, 43.
- 10 = so of 33, 63; br of 19, 21. (name, Pablo)
- 11 = so of 62; g so of 68; br of 15; h of 55.
- 12 = so of 59.
- 13 = so of 34, 57; br of 1, 14, 44, 49.
- 14 = so of 34, 57; br of 1, 13, 44, 49.
- 15 = so of 62; g so of 68; br of 11.
- 16 = so of 32, 65; br of 47.
- 17 = so of 67; br of 31, 45. (name, Jenaro)
- 18 = (name, Pipa)
- 19 = so of 33, 63; br of 10, 21. (name, Bellisario)
- 20 = so of 36, 66; br of 3, 39.
- 21 = so of 33, 63; br of 10, 19; h of 50. (name, Juan)
- 22 = h of 51. (name, Pehla'sa)
- 23 = f of 2, 37; h of 52. (name, Piwañticitcios Barfiki)
- 24 = so of 68; br of 62, 59; f of 40. (name, Juan Vicente)
- 25 = h of 53. (name, José Lisandro)
- 26 = br of 46. (name, Antonio Tamonero)
- 27 = h of 58.
- 28 = br of 29.
- 29 = h of 61; f of 9, 43; br of 28. (name, Chibu)
- 30 = f of 8; h of 60. (name, Antonio Nyapa)
- 31 = so of 67; br of 17, 45; f of 42, 48. (name, Ramón Pichota)

3: Barrett E-5 (1908-1909)1925

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TABLE XXV.—*Continued*

32	=	h of 65; f of 16, 47.
33	=	h of 63; f of 10, 19, 21. (name, José Trejo)
34	=	h of 57; f of 1, 13, 14, 44, 49. (name, Rosendo)
35	=	f of 7; h of 56. (name, Sylvester)
36	=	h of 66; f of 3, 20, 39. (name, Manuel Sanfiki)
37	=	d of 23, 52; si of 2.
38	=	si of 41.
39	=	d of 36, 66; si of 20, 3.
40	=	d of 24; g d of 68.
41	=	si of 38.
42	=	d of 31; si of 48.
43	=	d of 29, 61; si of 5, 9.
44	=	d of 34, 57; si of 1, 13, 14, 49.
45	=	d of 67; si of 31, 17.
46	=	si of 26.
47	=	d of 65, 32; si of 16.
48	=	d of 31; si of 42.
49	=	d of 34, 57; si of 1, 13, 14, 44.
50	=	w of 21.
51	=	w of 22.
52	=	w of 23; m of 2, 37
53	=	w of 25.
55	=	w of 11.
56	=	w of 35; m of 7.
57	=	w of 34; m of 1, 13, 14, 44, 49.
58	=	w of 27.
59	=	m of 12; si of 24.
60	=	w of 30; m of 8.
61	=	w of 29; m of 9, 43.
62	=	w of 68; m of 11, 15; si of 24.
63	=	w of 33; m of 10, 19, 21.
65	=	w of 32; m of 47, 16.
66	=	w of 36; m of 3, 20, 39.
67	=	m of 17, 31, 45. (name, María)
68	=	m of 24, 62; g m of 11, 15, 40.

of the current. Those going up-stream hug the bank as the pilot digs the tip of his oar blade into the bank, or if the channel is shallow enough, into the bed, and then, placing both hands about ten feet up the oar handle, he shoves back, sending the canoe ahead.

Farm land lies at varying distances back from the river. Each house is backed by a clearing which is used for garden crops or sugar cane. The main farm lands extend back from the river from one to three miles. Flat land is at a premium, and the cultivators work up and down the many hills.

Cayapa Physical Appearance. Although no systematic measurements were made, it was apparent from gross observations that Barrett's (1925:408-445) measurements are still valid. He described the Cayapas as short:

. . . the men averaging only 155 cm. and the women only 146 cm. The range of individual variation among the men, as also among the women, is 14 cm. Among the men there are at least a few individuals who appeared to be somewhat taller than the maximum here given, but as a tribe the Cayapa must be considered somewhat below average in stature (Barrett 1925:409).

They appear to be mostly brachycephalic. The hair is thick, coarse, black and straight; their skin, light

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501

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241
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